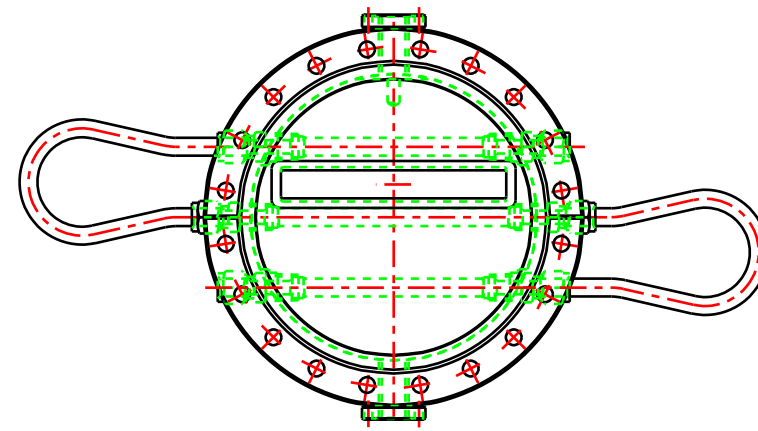
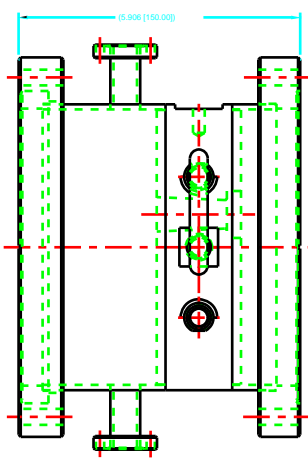
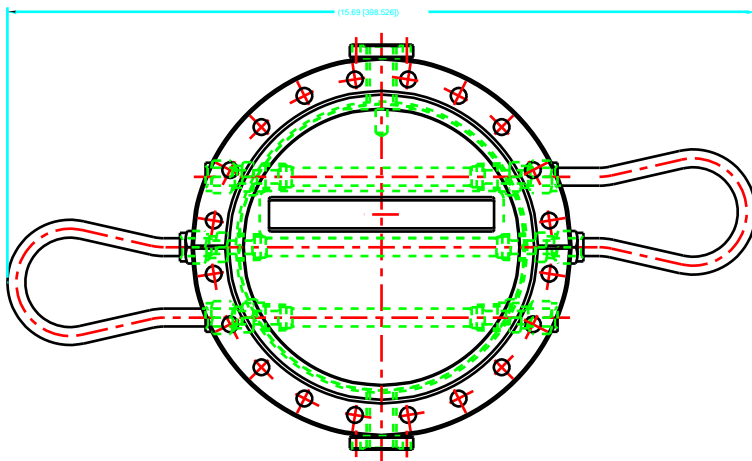


NOTES:

1. THIS IS A UHV ASSEMBLY. KEEP THE UHV PARTS CLEAN DURING ASSEMBLY AND WRAP UP FOR PACKING WITH ALUMINUM FOIL.
2. DEVICE SHALL BE LEAK TESTED USING A MASS SPECTROMETER WITH MINIMUM SENSITIVITY FOR HELIUM OF  $2 \times 10^{-10}$  STANDARD CC/SEC PER LEAK METER DIVISION, SUCH AS:  
ALCATEL ASM-1107CL  
VARIAN NCR 925 OR 936  
VEECO MS-9, MS-90 OR MS-18  
DuPONT CEC 24-120B  
CALIBRATION OF THE LEAK DETECTOR SENSITIVITY SHALL BE PERFORMED JUST PRIOR TO TESTING.  
FINAL TEST WILL CONSIST OF SURROUNDING THE CHAMBER (BAGGING) WITH HELIUM. THE CHAMBER WILL BE REJECTED IF A 2% DEFLECTION IN THE MOST SENSITIVE RANGE OF THE LEAK DETECTOR IS SENSED WITHIN 1 MIN.
3. BEFORE ASSEMBLY OF SWAGelok MALE CONNECTORS, USE CAJON PIPE THREAD SEALANT MS-TFS-50 TO ALLOW CONNECTION TO BE DISASSEMBLED WITHOUT SPECIAL TOOLS.
4. ALL DIMENSIONS WITH [ ] ARE MILLIMETERS.
5. WATER PRESSURE TEST AT 300 PSI AFTER ASSEMBLING.

INSTRUCTIONS FOR INSTALLATION OF TUBING

1. INSTALL THE TUBE INTO THE FITTING UNTIL IT IS BOTTOM AGAINST THE SHOULDER OF THE BODY.
2. THE NUT OF SWAGelok TUBE FITTING SHALL BE TIGHTEN  $1\frac{1}{4}$  TURN FOR FULL PULL-UP. THE SWAGelok GAP GAP INSPECTION GAGE SHALL BE USED TO CHECK FOR SUFFICIENT PULL-UP.



\* SWAGELOKS NOT SHOWN \*

SOURCE

(SWAGelok)  
DEARBORN VALVE & FITTING CO.  
1540 N. OLD RAND ROAD  
P.O. BOX 947  
WALUCONDA, IL. 60084-0847  
708-526-6900  
FAX: 708-526-1221

3	P4105090907-230001-00	P7 COOLING TUBE	SST 316	2
2	SS-600-1-4	CONNECTOR, MALE TUBE FITTING	SST 316	6
1	P4105090907-230100-00	P7 WHITE BEAM STOP WELDMENT		1
ITEM	QUANTITY	DESCRIPTION	MATERIAL SPEC.	QTY.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES		THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY		
DESIGNED BY	DATE	DESIGNED BY	DATE	DESIGNED BY
A. CHANG	5/94	D. SHU	6/27/94	
CHECKED BY	DATE	CHECKED BY	DATE	CHECKED BY
J. CHANG	6/26/94	T. M. KUZAY	6/28/94	
APPROVED BY	DATE	APPROVED BY	DATE	APPROVED BY
J. CHANG	6/26/94			
SEE ABOVE		ADVANCED PHOTON SOURCE		
P4105090907-230000-00		P7 BM FIXED WMS INTEGRAL SHUTTER WHITE BEAM STOP ASSEMBLY		